

CLAIMS

What is claimed is:

- 1 1. A method of producing a template for use in pre-contouring bone reconstruction
2 plates, the method comprising:
3 receiving medical image data representing surrounding portions of a
4 patient's anatomy to be repaired by surgical implantation of a bone reconstruction
5 plate;
6 performing three-dimensional surface reconstruction based on the medical
7 image data;
8 performing virtual removal of a bone or portion thereof to be reconstructed
9 with reference to the medical image data by simulating the surgical implantation
10 procedure;
11 creating a representation of a template contoured to fit the patient's
12 anatomy to be repaired; and
13 outputting a replica of the template by using Solid Freeform Fabrication
14 manufacturing techniques.